

202
HW

6.3

19, 21
p302 10-21, ~~12, 27~~, 32, 35, 41

10. $\frac{7}{21} \quad \frac{10}{30} \quad \frac{15}{45}$ yes SSS ~

$\frac{1}{3} = \frac{1}{3} = \frac{1}{3} \checkmark$

11. $\frac{3}{6} \quad \frac{7}{14} \quad \frac{7}{14}$ yes SSS ~
 $\frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{2}$

12. Not enough info (angle not b/w sides)

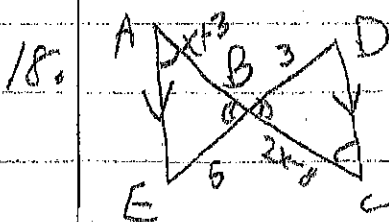
13. $\frac{180}{-140}$ yes AA ~
 $\frac{40}{40}$

14. yes SAS ~ (ratio 1-1)

15. $\frac{3}{9} = \frac{5}{15}$ yes SAS ~

16. yes AA ~ (corr. \angle s)

17. $\frac{6}{20} \quad \frac{10.5}{30} \quad \frac{12.6}{42}$ Not ~
.3 .35



$\triangle ABE \sim \triangle CBD$ by AA ~

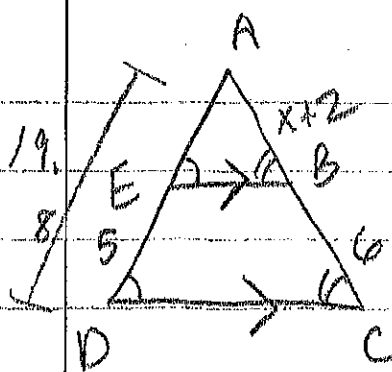
$\frac{x+3}{2x-8} = \frac{6}{3}$

$3x+9 = 10x-40$

$49 = 7x$

$7 = x$

$AB = 10 \quad BC = 6$



$$\triangle ABE \sim \triangle ACD$$

$$\frac{x+2}{x+8} = \frac{3}{8}$$

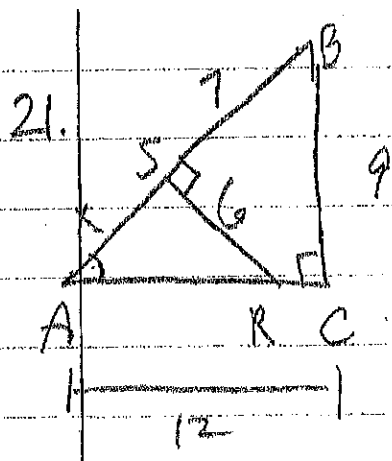
$$AB = 3.6$$

$$AC = 9.6$$

$$8x+16 = 3x+24$$

$$5x = 8$$

$$x = \frac{8}{5} = 1.6$$



$$\triangle ABC \sim \triangle ARS$$

$$AB = 15$$

$$AS = 8$$

$$\frac{AB}{AR} = \frac{BC}{RS} = \frac{AC}{AS}$$

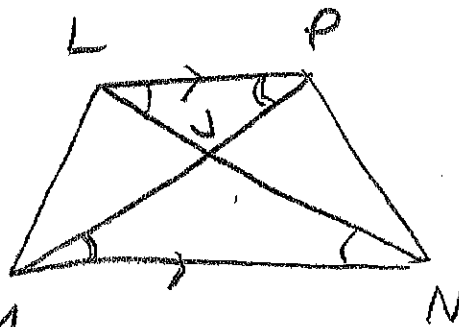
$$\frac{x+7}{?} = \frac{9}{6} = \frac{12}{x}$$

$$9x = 72$$

$$x = 8$$

35. G: $\overline{LP} \parallel \overline{MN}$

P: $\frac{LJ}{JN} = \frac{PJ}{JM}$



① $\overline{LP} \parallel \overline{MN}$

② $\angle PLJ \cong \angle MNS$
 $\angle LPJ \cong \angle JMN$

③ $\triangle LJP \sim \triangle NJM$

④ $\frac{LJ}{NJ} = \frac{PJ}{JM}$

① Given

② If \parallel , alt int $\angle s \cong$

③ AA \sim

④ Corr. sides of $\sim \Delta s$ are proportional